

Abstract of the Disclosure

High-brightness LEDs, combined with a processor for control, can produce a variety of pleasing effects for display and illumination. A system disclosed herein uses high-brightness, processor-controlled LEDs in combination with diffuse materials to produce color-changing effects. The systems described herein may be usefully employed

6 to bring autonomous color-changing ability and effects to a variety of consumer products and other household items. The system may also include sensors so that the illumination of the LEDs might change in response to environmental conditions or a user input.

Additionally, the system may include an interface to a network, so that the illumination of the LEDs may be controlled via the network.